

SEQUENCE LISTING

<110> Nicholette, Charles A.

<120> THERAPEUTIC COMPOUNDS FOR OVARIAN CANCER

<130> GZ 2104.00

<140> 09/931,969
<141> 2001-08-17

<150> 60/226,243
<151> 2000-08-17

<160> 12

<170> FastSEQ for Windows Version 4.0

<210> 1 <211> 3801 <212> DNA <213> Homo sapiens

<400> 1
atgaaagtga ccgtgtgctt cggacggacc cgggtggtcg tgccgtgcgg ggacggccac 60
atgaaagttt tcagcctcat ccagcaggcg gtgacccgct accggaaggc catcgccaag 120
gatccaaact actggataca ggtgcatcgc ttggaacatg gagatggagg aatactagac 180
cttgatgaca ttctttgtga tgtagcagac gataaagaca gactggtagc agtgtttgat 240
gagaaggata ttggtagtga gcttggcacc aacaatgtct cagcctttca gccttaccaa 360
gcaacaagtg aaattgaggt cacaccttca gtccttcgag caaatatgcc tcttcatgtt 420
cgacgcagta gtgacccagc tctaattggc ctctccactt ctgtcagtga tagtaatttt 480
tcctctgaag agccttcaag gaaaaatccc acacgctggt cacacacgaga aggatgaga tgggacagaa 600
gaggataaca gtcgtgtga acctgttgga catgctgaca cgggtttgga gcatataccc 660
aacttttctc tggatgatat ggtaaagctc gtagaagtcc ccaacgatgg agggcctctg 720 aacttttctc tggatgatat ggtaaagctc gtagaagtcc ccaacgatgg agggcctctg 720 ggaatccatg tagtgccttt cagtgctcga ggcggcagaa ccctggggtt attagtaaaa 780 cgattggaga aaggtggtaa agctgaacat gaaaatcttt ttcgtgagaa tgattgcatt 840 cgattggaga gtcaggatta atgatggcga ccttcgaaat agaagatttg aacaagcaca acatatgttt 900 cgccaagcca tgcgtacacc catcatttgg ttccatgtgg ttcctgcagc aaataaagag 960 cagtatgaac aactatcca aagtgagaag aacaattact attcaagccg ttttagccct 1020 gacagccagt atattgacaa caggagtgtg aacagtgcag ggcttcacac ggtgcagaga 1080 gcaccccgac tgaaccaccc gcctgagcag atagactctc actcaagact acctcatagc 1140 accacccct cgggaaaacc accatccgct ccagcctcgg cacctcagaa tgtatttagt 1200 accactctaa acgactgtaa gcagtggtta taacaccaaa aaaataggca agaggcttaa tatccagctt 1260 aagaaaggta cagaaggttt gggattcagc atcacttcca gagatgtaac aataggtggc 1320 agtgattcag ccgactgctc tttgagtcca gatgttgatc cagttcttgc ttttcaacga 2280 Page 1

```
gaaggatttg gacgtcagat agctgacgag actaaactca atacagtgga tgaccagaaa 2340 gcaggttctc ccagcagaga tgtgggtcct tccctgggtc tgaagaagtc aagctcgftg 2400
gagagtctgc agaccgcagt tgccgaggtg actttgaatg gggatattcc tttccatcgt 2460 ccacggccgc ggataatcag aggcagggga tgcaatgaga gcttcagagc tgccatcgac 2520
aaatcttatg ataaacccgc ggtagatgat gatgatgagg gcatggagac cttggaagaa 2580 gacacagaag aaagttcaag atcagggaga gagtctgtat ccacagccag tgatcagcct 2640
tcccactctc tggagagaca aatgaatgga aaccaagaga aaggtgataa gactgataga 2700
aaaaaggata aaactggaaa agaaaagaag aaagatagng ataaggagaa ggataaaatg 2760
aaagccaaga agggaatgct gaagggcttg ggagacatyt tcaggtttgg caaacatcga 2820
aaagatgaca agattgagaa aacgggtaaa ataaaaatac aggaatcctt tacatcagaa 2880
gaggagagga tacgaatgaa gcaggagcag gagaggattc aagccaaaac tcgagaattt 2940 agggaacgac aagctcgaga gcgtgactat gctgaaattc aagattttca tcggacattt 3000 ggctgtgatg atgagttaat gtatggggga gtttcttctt atgaaggttc catggctctc 3060 aacgctagac ctcagagcc acgagaaggg catatgatgg atgctttgta tgcccaagtc 3120
aagaagccgc ggaattccaa accctcacct gtagacagta acagatcaac tcctagcaat
catgategga tacagegtet gaggeaagaa ttteageaag caaageaaga tgaagatgta 3240
gaagategte ggeggaeeta tagttttgag caaceetgge egaaegeaeg geeggegaeg 3300
cagagcgggc gacactcggt gtccgtggag gtgcagatgc agcggcagcg gcaggaggag 3360
cgcgagaget cccagcagge ccagcgccag tacagetete tgcctcggca aagcaggaaa 3420
aatgccagct cggtctccca ggactcttgg gagcagaact actcccctgg ggaaggcttc 3480 cagagtgcca aagagaaccc caggtactcc agctaccaag gctccaggaa cggctacctg 3540 ggaggacatg gcttcaacgc cagggtcatg ctggaaactc aggaggctcct tcgccaggaa 3600 cagaggcgga aggagcagca gatgaagaag cagcctcctt ccgaggggcc cagcaactat 3660 gactcgtata agaaagtcca ggaccccagt tacgcccctc ccaaggggcc cttccggcaa 3720
gatgtgcccc cctccccttc tcaggttgcg aggctgaaca gacttcagac tcctgagaaa 3780
gggaggccct tctattcctg a
```

<210> 2 <211> 1266 <212> PRT

<213> Homo sapiens

<400> 2 Met Lys Val Thr Val Cys Phe Gly Arg Thr Arg Val Val Pro Cys 10 Gly Asp Gly His Met Lys Val Phe Ser Leu Ile Gln Gln Ala Val Thr 20 25 30 Arg Tyr Arg Lys Ala Ile Ala Lys Asp Pro Asn Tyr Trp Ile Gln Val His Arg Leu Glu His Gly Asp Gly Gly Ile Leu Asp Leu Asp Asp Ile 50 55 60 Leu Cys Asp Val Ala Asp Asp Lys Asp Arg Leu Val Ala Vai Phe Asp 65 70 75 80 Glu Gln Asp Pro His His Gly Gly Asp Gly Thr Ser Ala Ser Ser Thr Gly Thr Gln Ser Pro Glu Ile Phe Gly Ser Glu Leu Gly Thr Asn Asn 100 105 110 Ser Ala Phe Gln Pro Tyr Gln Ala Thr Ser Glu Ile Glu Val Thr 120 Pro Ser Val Leu Arg Ala Asn Met Pro Leu His Val Arg Arg Ser Ser 135 140 Asp Pro Ala Leu Ile Gly Leu Ser Thr Ser Val Ser Asp Ser Asn Phe 145 150 155 160 Ser Ser Glu Glu Pro Ser Arg Lys Asn Pro Thr Arg Trp Ser Thr Thr 170 Ala Gly Phe Leu Lys Gln Asn Thr Ala Gly Ser Pro Lys Thr Cys Asp 185 Arg Lys Asp Glu Asp Gly Thr Glu Glu Asp Asn Ser Arg Val Glu Pro 195 200 205 Val Gly His Ala Asp Thr Gly Leu Glu His Ile Pro Asn Phe Ser Leu 210 220 Asp Asp Met Val Lys Leu Val Glu Val Pro Asn Asp Gly Gly Pro Leu 225 230 235 240 Gly Ile His Val Val Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly Leu Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn 260 265 270 Leu Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Leu 275 280 285 Arg Asn Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met 290 295 300 Arg Thr Pro Ile Ile Trp Phe His Val Val Pro Ala Ala Asn Lys Glu 305 310 315 320 Gln Tyr Glu Gln Leu Ser Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser 325 330 335 Arg Phe Ser Pro Asp Ser Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser 350 345 340 Ala Gly Leu His Thr Val Gln Arg Ala Pro Arg Leu Asn His Pro Pro 360 Glu Gln Ile Asp Ser His Ser Arg Leu Pro His Ser Ala His Pro Ser 370 380 Gly Lys Pro Pro Ser Ala Pro Ala Ser Ala Pro Gln Asn Val Phe Ser 385 390 395 _ _ 400 Thr Thr Val Ser Ser Gly Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu
405 410 415 Asn Ile Gln Leu Lys Lys Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr 420 425 430 Ser Arg Asp Val Thr Ile Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn 435 440 445 Ile Leu Pro Arg Gly Ala Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly
450 455 460 Asp Arg Leu Ile Glu Val Asn Gly Val Asp Leu Val Gly Lys Ser Gln 465 470 475 480 Glu Glu Val Val Ser Leu Leu Arg Ser Thr Lys Met Glu Gly Thr Val 485 490 495 Ser Leu Leu Val Phe Arg Gln Glu Asp Ala Phe His Pro Arg Glu Leu 505 500 Lys Ala Glu Asp Glu Asp Ile Val Leu Thr Pro Asp Gly Thr Arg Glu
515 520 525 Phe Leu Thr Phe Glu Val Pro Leu Asn Asp Ser Cly Ser Ala Gly Leu 530 540 Gly Val Ser Val Lys Gly Asn Arg Ser Lys Glu Asn His Ala Asp Leu 545 550 555 560 Gly Ile Phe Val Lys Ser Ile Ile Asn Gly Gly Ala Ala Ser Lys Asp 565 570 575 Gly Arg Leu Arg Val Asn Asp Gln Leu Ile Ala Val Asn Gly Glu Ser 580 585 590 Leu Leu Gly Lys Thr Asn Gln Asp Ala Met Glu Thr Leu Arg Arg Ser 595 600 605 Met Ser Thr Glu Gly Asn Lys Arg Gly Met Ile Gln Leu Ile Vai Ala 610 620 Arg Arg Ile Ser Lys Cys Asn Glu Leu Lys Ser Pro Gly Ser Pro Pro 625 630 640 Gly Pro Glu Leu Pro Ile Glu Thr Ala Leu Asp Asp Arg Glu Arg Arg 645 650 Ile Ser His Ser Leu Tyr Ser Gly Ile Glu Gly Leu Asp Glu Ser Pro 665 Ser Arg Asn Ala Ala Leu Ser Arg Ile Met Gly Lys Tyr Gln Leu Ser 675 680 685 Pro Thr Val Asn Met Pro Gln Asp Asp Thr Val Ile Ile Glu Asp Asp 700 695 Arg Leu Pro Val Leu Pro Pro His Leu Ser Asp Gln Ser Ser Ser 705 710 715 720 720 Ser His Asp Asp Val Gly Phe Val Thr Ala Asp Ala Gly Thr Trp Ala 730 Lys Ala Ala Ile Ser Asp Ser Ala Asp Cys Ser Leu Ser Pro Asp Val 740 745 750 Asp Pro Val Leu Ala Phe Gln Arg Glu Gly Phe Gly Arg Gln Ile Ala Asp Glu Thr Lys Leu Asn Thr Val Asp Asp Glr. Lys Ala Gly Ser Pro 770 780 775 Ser Arg Asp Val Gly Pro Ser Leu Gly Leu Lys Lys Ser Ser Ser Leu 785 790 795 800 Glu Ser Leu Gln Thr Ala Val Ala Glu Val Thr Leu Asn Gly Asp Ile 805 810 815 Pro Phe His Arg Pro Arg Pro Arg Ile Ile Arg Gly Arg Gly Cys Asn 820 825 830 Glu Ser Phe Arg Ala Ala Ile Asp Lys Ser Tyr Asp Lys Pro Ala Val 840 Asp Asp Asp Asp Glu Gly Met Glu Thr Leu Glu Glu Asp Thr Glu Glu 855 860 Ser Ser Arg Ser Gly Arg Glu Ser Val Ser Thr Ala Ser Asp Gln Pro 87Õ 875 Ser His Ser Leu Glu Arg Gln Met Asn Gly Asn Gln Glu Lys Gly Asp 890 Lys Thr Asp Arg Lys Lys Asp Lys Thr Gly Lys Glu Lys Lys Lys Asp 900 905 910 Arg Asp Lys Glu Lys Asp Lys Met Lys Ala Lys Lys Gly Met Leu Lys 915 920 925 Gly Leu Gly Asp Met Phe Arg Phe Gly Lys His Arg Lys Asp Asp Lys 930 940 Ile Glu Lys Thr Gly Lys Ile Lys Ile Glu Ser Phe Thr Ser Glu 945 950 955 960 Glu Glu Arg Ile Arg Met Lys Gln Glu Gln Glu Arg Ile Gln Ala Lys 965 970 975 Thr Arg Glu Phe Arg Glu Arg Gln Ala Arg Glu Arg Asp Tyr Ala Glu 980 985 990 Ile Gln Asp Phe His Arg Thr Phe Gly Cys Asp Asp Glu Leu Met Tyr 995 1000 1005 Gly Gly Val Ser Ser Tyr Glu Gly Ser Met Ala Leu Asn Ala Arg Pro 1010 1015 1020 Gln Ser Pro Arg Glu Gly His Met Met Asp Ala Leu Tyr Ala Gln Val 1030 1035 1040 Lys Lys Pro Arg Asn Ser Lys Pro Ser Pro Val Asp Ser Asn Arg Ser 1055 1050 1045 Thr Pro Ser Asm His Asp Arg Ile Glm Arg Leu Arg Glm Glu Phe Glm 1060 1065 1070 Gln Ala Lys Gln Asp Glu Asp Val Glu Asp Arg Arg Thr Tyr Ser 1075 1080 1085 Phe Glu Gln Pro Trp Pro Asn Ala Arg Pro Ala Thr Gln Ser Gly Arg 1095 1100 1090 His Ser Val Ser Val Glu Val Gln Met Gln Arg Gln Arg Gln Glu Glu 1105 1115 112 Arg Glu Ser Ser Gln Gln Ala Gln Arg Gln Tyr Ser Ser Leu Pro Arg 1130 1135 1125 Gln Ser Arg Lys Asn Ala Ser Ser Val Ser Gln Asr Ser Trp Glu Gln
1140 1145 1150 Asn Tyr Ser Pro Gly Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg 1160 1165 Tyr Ser Ser Tyr Gln Gly Ser Arg Asn Gly Tyr Leu Gly Gly His Gly 1175 1170 1180 Phe Asn Ala Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu 1190 1195 1200 Gln Arg Arg Lys Glu Gln Gln Met Lys Lys Gln Pro Pro Ser Glu Gly 1205 1210 1215 1205 1210 Pro Ser Asn Tyr Asp Ser Tyr Lys Lys Val Gln Asp Pro Ser Tyr Ala 1220 1235 1230 Pro Pro Lys Gly Pro Phe Arg Gln Asp Val Pro Pro Ser Pro Ser Gla 1240 1245 Val Ala Arg Leu Asn Arg Leu Gln Thr Pro Glu Lys Gly Arg Pro Phe 1250 Tyr Ser

```
<210> 3
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3
Pro Leu Thr Asp Glu Arg Met Pro Va?
<210> 4
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 6, 9, 18, 24, 27
<223> n = A,T,C or G
<400> 4
                                                                                 27
ttyctnacng aygarcgnat gccngtn
<210> 5
<211> 9
<212> PRT
<213> Homo sapiens
<400> 5
Phe Leu Thr Asp Glu Ala Arg Ser Val
<210> 6
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 6, 9, 18, 21, 24, 27
<223> n = A,T,C or G
<400> 6
                                                                                 27
ttyctnacng aygargcnmg nwsngtn
<210> 7
<211> 9
<212> PRT
<213> Homo sapiens
<400> 7
Phe Leu Asp Asp Glu Ile Met Arg Val
<210> 8
<211> 27
<212> DNA
```

1265

<213> Homo sapiens

```
<220>
<221> misc_feature <222> 6, 24, 27
<223> n = A,T,C or G
<400> 8
                                                                                       27
ttyctngayg aygarathat gmgngtn
<210> 9
<211> 9
<212> PRT
<213> Homo sapiens
<400> 9
Phe Leu Asp Asp Glu Ile Thr Phe Val
<210> 10
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 6, 21, 27
<223> n = A,T,C or G
<400> 10
                                                                                       27
ttyctngayg aygarathac nttygtn
<210> 11
<211> 9
<212> PRT
<213> Homo sapiens
<400>_11
Ile Ile Glu Asp Asp Arg Leu Pro Val
<210> 12
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 18, 21, 24, 27
<223> n = A,T,C or G
<400> 12
                                                                                        27
athathgarg aygaycgnyt nccngtn
```